

ARC 6353B**ENVIRONMENTAL PROTECTION
COMMISSION[567]****Adopted and Filed**

Pursuant to the authority of Iowa Code section 455B.133, the Environmental Protection Commission hereby amends Chapter 34, "Provisions for Air Quality Emissions Trading Programs," Iowa Administrative Code.

The purpose of the rule changes is to make administrative amendments to the state's rules for the Clean Air Interstate Rule (CAIR) and the Clean Air Mercury Rule (CAMR).

Notice of Intended Action was published in the Iowa Administrative Bulletin on August 1, 2007, as **ARC 6092B**. A public hearing was held on September 4, 2007. No comments were received at the public hearing and no comments were received prior to the close of the public comment period. The public comment period closed on September 5, 2007.

The Department did not make any changes to the adopted amendments from what was proposed in the published Notice.

The final rules for CAIR and CAMR were originally published in Chapter 34 of the Iowa Administrative Code on June 7, 2006. After the Department adopted the final rules and submitted the rules to the Environmental Protection Agency (EPA), Region VII, for approval into Iowa's State Implementation Plan (SIP), EPA identified an issue that required administrative amendments to Iowa's rules and to other states' rules.

The previously adopted definitions in Chapter 34 identified the Department as the permitting authority. The CAIR and CAMR programs are unique in that they allow for trading and holding of emissions allowances that may have been originally allocated by another "permitting authority," such as EPA or another state agency. To account for this, EPA requested that the Department modify the definitions of "permitting authority" contained in the Iowa Administrative Code for purposes of CAIR and CAMR allocations by adopting the definition in the federal regulations. EPA made a written request for the changes to the Department on February 16, 2007. EPA then followed this letter with an E-mail, dated April 10, 2007, requesting that the Department commit to a schedule allowing for final rule adoption by January 2008. This time line is necessary so that the adopted amendments become effective before any trading commences under the CAIR program, which could occur as early as January 2008.

Item 1 amends rule 567—34.201(455B) to specify that the definition of "permitting authority" shall mean the definition contained in 40 CFR 96.102 for purposes of its use in the definitions of "allocate or allocation" or "CAIR NO_x allowance," also set forth in 40 CFR 96.102, and shall mean the Iowa Department of Natural Resources in all other references.

Item 2 amends rule 567—34.210(455B) to specify that the definition of "permitting authority" shall mean the definition contained in 40 CFR 96.202 for purposes of its use in the definitions of "allocate or allocation" or "CAIR SO₂ allowance," also set forth in 40 CFR 96.202, and shall mean the Iowa Department of Natural Resources in all other references.

Item 3 amends rule 567—34.221(455B) to specify that the definition of "permitting authority" shall mean the definition

contained in 40 CFR 96.302 for purposes of its use in the definitions of "allocate or allocation" or "CAIR NO_x ozone season allowance," also set forth in 40 CFR 96.302, and shall mean the Iowa Department of Natural Resources in all other references.

Item 4 amends rule 567—34.301(455B) to specify that the definition of "permitting authority" shall mean the definition contained in 40 CFR 60.4102 for purposes of its use in the definitions of "allocate or allocation" or "Hg allowance," also set forth in 40 CFR 60.4102, and shall mean the Iowa Department of Natural Resources in all other references.

These amendments are intended to implement Iowa Code section 455B.133.

These amendments will become effective on November 28, 2007.

EDITOR'S NOTE: Pursuant to recommendation of the Administrative Rules Review Committee published in the Iowa Administrative Bulletin, September 10, 1986, the text of these amendments [34.201, 34.210, 34.221, 34.301] is being omitted. These amendments are identical to those published under Notice as **ARC 6092B**, IAB 8/1/07.

[Filed 10/4/07, effective 11/28/07]
[Published 10/24/07]

[For replacement pages for IAC, see IAC Supplement 10/24/07.]

ARC 6352B**ENVIRONMENTAL PROTECTION
COMMISSION[567]****Adopted and Filed**

Pursuant to the authority of Iowa Code sections 455B.105 and 455B.173, the Environmental Protection Commission hereby amends Chapter 61, "Water Quality Standards," Iowa Administrative Code.

Notice of Intended Action was published in the Iowa Administrative Bulletin on May 23, 2007, as **ARC 5898B**. Six public hearings were held, with notice of the hearings sent to various individuals, organizations, associations and interest groups and to statewide news network organizations. Comments were received from nine persons and organizations. A responsiveness summary addressing the comments can be obtained from the Department of Natural Resources.

The adopted amendment has been modified from that published in the Notice. The following modifications were made after all comments from the public hearings were considered.

1. Termination of rule making for 1.4 µg/l Arsenic (III) Class HH fish consumption criterion. The department is conducting additional research to determine an appropriate criterion due to ambiguity surrounding the 1.4 µg/l national criterion value.

2. Vinyl Chloride Class HH fish consumption criterion correction. The Notice originally proposed a criterion of 240 µg/l. This has been changed to a value of 24 µg/l to be consistent with the EPA's 304(a) national criterion for vinyl chloride.

3. Silver Class B(WW-1), B(WW-2), and B(WW-3) acute criterion correction. The Notice originally proposed a criterion of 4 µg/l. This has been changed to a value of 3.8 µg/l to be consistent with the EPA's 304(a) national criterion for silver.

ENVIRONMENTAL PROTECTION COMMISSION[567](cont'd)

Parameter		Use Designations						C	HH
		B(CW1)	B(CW2)	B(WW-1)	B(WW-2)	B(WW-3)	B(LW)		
Benzene	Human Health — F & W	—	—	—	—	—	—	—	12 22 ^(f)
	Human Health — Fish	—	—	—	—	—	—	—	712.8 510 ^(e)
Benzo(a)Pyrene	Human Health — F & W	—	—	—	—	—	—	—	.044 .038 ^(f)
	Human Health — Fish	—	—	—	—	—	—	—	.18 ^(e)
Beryllium	MCL	—	—	—	—	—	—	4	—
Bromoform	Human Health — F & W	—	—	—	—	—	—	—	43 ^(f)
	Human Health — Fish	—	—	—	—	—	—	—	3600 1400 ^(e)
Cadmium	Chronic	1	—	15 .27 ^(h)	25 .27 ^(h)	25 .27 ^(h)	1	—	—
	Acute	4	—	75 2.13 ^(h)	100 2.13 ^(h)	100 2.13 ^(h)	4	—	—
	Human Health + — Fish	—	—	—	—	—	—	—	168 ^(e)
	MCL	—	—	—	—	—	—	5	—
Carbofuran	MCL	—	—	—	—	—	—	40	—
Carbon Tetra- chloride	Human Health — F & W	—	—	—	—	—	—	—	2.5 2.3 ^(f)
	Human Health — Fish	—	—	—	—	—	—	—	44.2 16 ^(e)
Chlordane	Chronic	.004	—	.004 .0043	.15 .0043	.15 .0043	.004	—	—
	Acute	2.5	—	2.5 2.4	2.5 2.4	2.5 2.4	2.5	—	—
	Human Health — Fish	—	—	—	—	—	—	—	.006 .0081 ^(e)
	Human Health — F & W	—	—	—	—	—	—	—	.021 .008 ^(f)
Chloride	MCL	—	—	—	—	—	—	250*	—
Chlorobenzene	Human Health + — Fish	—	—	—	—	—	—	—	24 1.6* ^(e)
	Human Health + — F & W	—	—	—	—	—	—	—	130 ^(f)
	MCL	—	—	—	—	—	—	100	—
Chlorodibromo- methane	Human Health — F & W	—	—	—	—	—	—	—	4.1 4.0 ^(f)
	Human Health — Fish	—	—	—	—	—	—	—	340 130 ^(e)
Chloroform	Human Health — F & W	—	—	—	—	—	—	—	57 ^(f)
	Human Health — Fish	—	—	—	—	—	—	—	4700 ^(e)
Chloropyrifos	Chronic	.041	—	.041	.041	.041	.041	—	—
	Acute	.083	—	.083	.083	.083	.083	—	—
Chromium (VI)	Chronic	40	—	40 11	200 11	200 11	10	—	—
	Acute	60	—	60 16	300 16	300 16	15	—	—
	Human Health + — Fish	—	—	—	—	—	—	—	3365 ^(e)
	MCL	—	—	—	—	—	—	100	—

ENVIRONMENTAL PROTECTION COMMISSION[567](cont'd)

Parameter		Use Designations							
		B(CW1)	B(CW2)	B(WW-1)	B(WW-2)	B(WW-3)	B(LW)	C	HH
Copper	Chronic	20	—	35 9.3 ⁽ⁱ⁾	55 9.3 ⁽ⁱ⁾	55 9.3 ⁽ⁱ⁾	10	—	—
	Acute	30	—	60 14 ⁽ⁱ⁾	90 14 ⁽ⁱ⁾	90 14 ⁽ⁱ⁾	20	—	—
	Human Health + — Fish	—	—	—	—	—	—	—	1000 ^(e)
	Human Health + — F & W	—	—	—	—	—	—	—	1300 ^(f)
Cyanide	Chronic	5	—	10 5.2	10 5.2	10 5.2	10	—	—
	Acute	20	—	45 22	45 22	45 22	45	—	—
	Human Health + — F & W	—	—	—	—	—	—	—	700 140 ^(f)
	Human Health — Fish	—	—	—	—	—	—	—	140 ^(e)
Dalapon	MCL	—	—	—	—	—	—	200	—
Dibromochloro- propane	MCL	—	—	—	—	—	—	.2	—
4,4-DDT ++	Chronic	.001	—	.001	.029 .001	.029 .001	.001	—	—
	Acute	.9	—	.8 1.1	.95 1.1	.95 1.1	.55	—	—
	Human Health — Fish	—	—	—	—	—	—	—	.0059 .0022 ^(e)
	Human Health — F & W	—	—	—	—	—	—	—	.0059 .0022 ^(f)
o-Dichloro- benzene	MCL	—	—	—	—	—	—	600	—
para-Dichloro- benzene	Human Health + — F & W	—	—	—	—	—	—	—	400 63 ^(f)
	Human Health + — Fish	—	—	—	—	—	—	—	2.6* 190 ^(e)
3,3-Dichloro- benzidine	Human Health — Fish	—	—	—	—	—	—	—	.2 .28 ^(e)
	Human Health — F & W	—	—	—	—	—	—	—	.4 .21 ^(f)
Dichlorobromo- methane	Human Health — F & W	—	—	—	—	—	—	—	5.6 5.5 ^(f)
	Human Health — Fish	—	—	—	—	—	—	—	460 170 ^(e)
1,2-Dichloro- ethane	Human Health — F & W	—	—	—	—	—	—	—	3.8 ^(f)
	Human Health — Fish	—	—	—	—	—	—	—	986 370 ^(e)
1,1-Dichloro- ethylene	Human Health — F & W	—	—	—	—	—	—	—	.57 330 ^(f)
	Human Health — Fish	—	—	—	—	—	—	—	32 7.1 * ^(e)
cis-1,2-Dichloro- ethylene	MCL	—	—	—	—	—	—	70	—
trans-1,2- 1,2-trans- Dichloroethylene	Human Health + — F & W	—	—	—	—	—	—	—	700 10* ^(f)
	Human Health — Fish	—	—	—	—	—	—	—	140 ^(e)
Dichloromethane	MCL	—	—	—	—	—	—	5	—

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Parameter		Use Designations						C	HH
		B(CW1)	B(CW2)	B(WW-1)	B(WW-2)	B(WW-3)	B(LW)		
1,2-Dichloro- propane	Human Health — F & W	—	—	—	—	—	—	—	5.2 5.0 ^(f)
	<i>Human Health — Fish</i>	—	—	—	—	—	—	—	150 ^(e)
Di(2-ethylhex- yl)adipate	MCL	—	—	—	—	—	—	400	—
Di bis(2-ethylhex- yl)phthalate	Human Health — F & W	—	—	—	—	—	—	—	18 12 ^(f)
	<i>Human Health — Fish</i>	—	—	—	—	—	—	—	22 ^(e)
Dieldrin	Chronic	.056	—	.056	.056	.056	.056	—	—
	Acute	.24	—	.24	.24	.24	.24	—	—
	Human Health — Fish	—	—	—	—	—	—	—	.0014 .00054 ^(e)
	Human Health — F & W	—	—	—	—	—	—	—	.0014 .00052 ^(f)
Dinoseb	MCL	—	—	—	—	—	—	7	—
2,3,7,8-TCDD (Dioxin)	Human Health — F & W	—	—	—	—	—	—	—	1.3 ⁻⁷ 5.0 ^{-8(f)}
	Human Health — Fish	—	—	—	—	—	—	—	.00014 ⁺ 5.1 ^{-8(e)}
Diquat	MCL	—	—	—	—	—	—	20	—
2,4-D	Human Health + — F & W	—	—	—	—	—	—	—	100 ^(f)
Endosulfan ^(b)	Chronic	.056	—	.15 .056	.15 .056	.15 .056	.15	—	—
	Acute	.11	—	.3 .22	.3 .22	.3 .22	.3	—	—
	Human Health + — Fish	—	—	—	—	—	—	—	240 89 ^(e)
	Human Health + — F & W	—	—	—	—	—	—	—	110 62 ^(f)
Endothall	MCL	—	—	—	—	—	—	100	—
Endrin	Chronic	.05	—	.036	.036	.036	.036	—	—
	Acute	.12	—	.086	.086	.086	.086	—	—
	Human Health + — Fish	—	—	—	—	—	—	—	.81 .06 ^(e)
	Human Health + — F & W	—	—	—	—	—	—	—	.76 .059 ^(f)
Ethylbenzene	Human Health + — F & W	—	—	—	—	—	—	—	3100 530 ^(f)
	<i>Human Health — Fish</i>	—	—	—	—	—	—	—	2100 ^(e)
Ethylene dibromide	MCL	—	—	—	—	—	—	.05	—
Fluoride	MCL	—	—	—	—	—	—	4000	—
Glyphosate	MCL	—	—	—	—	—	—	700	—

ENVIRONMENTAL PROTECTION COMMISSION[567](cont'd)

Parameter		Use Designations							
		B(CW1)	B(CW2)	B(WW-1)	B(WW-2)	B(WW-3)	B(LW)	C	HH
Heptachlor	Chronic	.0038	—	.0038	.0038	.0038	.0038	—	—
	Acute	.38	—	.38	.52	.38	.52	.38	—
	Human Health — Fish	—	—	—	—	—	—	—	.002 .00079 ^(e)
	Human Health — F & W	—	—	—	—	—	—	—	.0021 .00079 ^(f)
Heptachlor epoxide	<i>Chronic</i>	.0038	—	.0038	.0038	.0038	.0038	—	—
	<i>Acute</i>	.52	—	.52	.52	.52	.52	—	—
	Human Health — F & W	—	—	—	—	—	—	—	.001 .00039 ^(f)
	<i>Human Health — Fish</i>	—	—	—	—	—	—	—	.00039 ^(e)
Hexachloro- benzene	Human Health — F & W	—	—	—	—	—	—	—	.0075 .0028 ^(f)
	<i>Human Health — Fish</i>	—	—	—	—	—	—	—	.0029 ^(e)
γ-Hexachloro- cyclohexane- gamma-BHC (Lindane)	Chronic	N/A	—	N/A	N/A	N/A	N/A	—	—
	Acute	.95	—	.95	.95	.95	.95	—	—
	Human Health + — Fish	—	—	—	—	—	—	—	.63 1.8 ^(e)
	Human Health + — F & W	—	—	—	—	—	—	—	.19 .98 ^(f)
Hexachloro- cyclopentadiene	Human Health — F & W	—	—	—	—	—	—	—	240 40 ^(f)
	<i>Human Health — Fish</i>	—	—	—	—	—	—	—	1100 ^(e)
Lead	Chronic	3	—	30 3.2 ^(j)	80 3.2 ^(j)	80 3.2 ^(j)	3	—	—
	Acute	80	—	200 81.7 ^(j)	750 81.7 ^(j)	750 81.7 ^(j)	80	—	—
	MCL	—	—	—	—	—	—	50	—
Mercury (II)	Chronic	3.5	—	2.1 .9	3.7 .9	3.7 .9	.91	—	—
	Acute	6.5	—	4.0 1.64	6.9 1.64	6.9 1.64	1.7	—	—
	Human Health + — Fish	—	—	—	—	—	—	—	.15 ^(e)
	Human Health + — F & W	—	—	—	—	—	—	—	.05 ^(f)
Methoxychlor	Human Health + — F & W	—	—	—	—	—	—	—	100 ^(f)
Nickel	Chronic	350	—	650 52 ^(k)	750 52 ^(k)	750 52 ^(k)	150	—	—
	Acute	3250	—	5800 470 ^(k)	7000 470 ^(k)	7000 470 ^(k)	1400	—	—
	Human Health + — Fish	—	—	—	—	—	—	—	4584 4600 ^(e)
	Human Health + — F & W	—	—	—	—	—	—	—	610 ^(f)
Nitrate as N	MCL	—	—	—	—	—	—	10*	—
Nitrate + Nitrite as N	MCL	—	—	—	—	—	—	10*	—
Nitrite as N	MCL	—	—	—	—	—	—	1*	—

ENVIRONMENTAL PROTECTION COMMISSION[567](cont'd)

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Parameter		Use Designations							
		B(CW1)	B(CW2)	B(WW-1)	B(WW-2)	B(WW-3)	B(LW)	C	HH
Toluene	Chronic	50	—	50	150	150	50	—	—
	Acute	2500	—	2500	7500	7500	2500	—	—
	Human Health + — Fish	—	—	—	—	—	—	—	300 15*(e)
	Human Health + — F & W	—	—	—	—	—	—	—	6800 1300(f)
Total Residual Chlorine (TRC)	Chronic	10	—	20 11	25 11	25 11	10	—	—
	Acute	35	—	35 19	40 19	40 19	20	—	—
Toxaphene	Chronic	.037	—	.037 .002	.037 .002	.037 .002	.037	—	—
	Acute	.73	—	.73	.73	.73	.73	—	—
	Human Health — Fish	—	—	—	—	—	—	—	.0075 .0028(e)
	Human Health — F & W	—	—	—	—	—	—	—	.0073 .0028(f)
1,2,4-Trichlorobenzene	MCL	—	—	—	—	—	—	70	—
1,1,1-Trichloroethane	MCL	—	—	—	—	—	—	200	—
	Human Health + — Fish	—	—	—	—	—	—	—	173*(e)
1,1,2-Trichloroethane	Human Health — F & W	—	—	—	—	—	—	—	6(f)
Trichloroethylene (TCE)	Chronic	80	—	80	80	80	80	—	—
	Acute	4000	—	4000	4000	4000	4000	—	—
	Human Health — Fish	—	—	—	—	—	—	—	807 300(e)
	Human Health — F & W	—	—	—	—	—	—	—	27 25(f)
Trihalomethanes (total)(c)	MCL	—	—	—	—	—	—	80	—
Vinyl Chloride	Human Health — F & W	—	—	—	—	—	—	—	20 .25(f)
	Human Health — Fish	—	—	—	—	—	—	—	5250 24(e)
Xylenes (total)	MCL	—	—	—	—	—	—	10*	—
Zinc	Chronic	200	—	450 120(l)	2000 120(l)	2000 120(l)	100	—	—
	Acute	220	—	500 120(l)	2200 120(l)	2200 120(l)	110	—	—
	Human Health + — Fish	—	—	—	—	—	—	—	5000 26*(e)
	Human Health + — F & W	—	—	—	—	—	—	—	9100 7.4*(f)

* units expressed as milligrams/liter

** to include the sum of known and suspected carcinogenic PAHs (includes benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene)

† expressed as nanograms/liter

+ represents the noncarcinogenic human health parameters

++ The concentrations of 4,4-DDT or its metabolites; 4,4-DDE and 4,4-DDD, individually shall not exceed the human health criteria.

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- (a) units expressed as million fibers/liter (longer than 10 micrometers)
 (b) includes alpha-endosulfan, beta-endosulfan, and endosulfan sulfate in combination or as individually measured
 (c) The sum of the four trihalomethanes (bromoform [tribromomethane], chlorodibromomethane, chloroform [trichloromethane], and dichlorobromomethane) may not exceed the MCL.
 (d) Class B numerical criteria are for pentachlorophenol are a function of pH using the equation:
 Criterion ($\mu\text{g/l}$) = $e^{[1.005(\text{pH}) - x]}$, where $e = 2.71828$ and x varies according to the following table:

	B(CW1)	B(CW2)	B(WW-1)	B(WW-2)	B(WW-3)	B(LW)
Acute	3.869	—	4.869	4.869	4.869	4.869
Chronic	4.134	—	5.134	5.134	5.134	5.134

- (e) This Class HH criterion would be applicable to any Class B(LW), B(CW1), B(WW-1), B(WW-2), or B(WW-3) water body that is also designated Class HH.
 (f) This Class HH criterion would be applicable to any Class C water body that is also designated Class HH.
 (g) *inorganic form only*
 (h) Class B(WW-1), B(WW-2), and B(WW-3) criteria listed in main table are based on a hardness of 100 mg/l (as CaCO_3 (mg/l)). Numerical criteria ($\mu\text{g/l}$) for cadmium are a function of hardness (as CaCO_3 (mg/l)) using the equation for each use according to the following table:

	B(WW-1)	B(WW-2)	B(WW-3)
Acute	$e^{[1.0166\text{Ln}(\text{Hardness}) - 3.924]}$	$e^{[1.0166\text{Ln}(\text{Hardness}) - 3.924]}$	$e^{[1.0166\text{Ln}(\text{Hardness}) - 3.924]}$
Chronic	$e^{[0.7409\text{Ln}(\text{Hardness}) - 4.719]}$	$e^{[0.7409\text{Ln}(\text{Hardness}) - 4.719]}$	$e^{[0.7409\text{Ln}(\text{Hardness}) - 4.719]}$

- (i) Class B(WW-1), B(WW-2), and B(WW-3) criteria listed in main table are based on a hardness of 100 mg/l (as CaCO_3 (mg/l)). Numerical criteria ($\mu\text{g/l}$) for copper are a function of hardness (CaCO_3 (mg/l)) using the equation for each use according to the following table:

	B(WW-1)	B(WW-2)	B(WW-3)
Acute	$e^{[0.9422\text{Ln}(\text{Hardness}) - 1.700]}$	$e^{[0.9422\text{Ln}(\text{Hardness}) - 1.700]}$	$e^{[0.9422\text{Ln}(\text{Hardness}) - 1.700]}$
Chronic	$e^{[0.8545\text{Ln}(\text{Hardness}) - 1.702]}$	$e^{[0.8545\text{Ln}(\text{Hardness}) - 1.702]}$	$e^{[0.8545\text{Ln}(\text{Hardness}) - 1.702]}$

- (j) Class B(WW-1), B(WW-2), and B(WW-3) criteria listed in main table are based on a hardness of 100 mg/l (as CaCO_3 (mg/l)). Numerical criteria ($\mu\text{g/l}$) for lead are a function of hardness (CaCO_3 (mg/l)) using the equation for each use according to the following table:

	B(WW-1)	B(WW-2)	B(WW-3)
Acute	$e^{[1.2731\text{Ln}(\text{Hardness}) - 1.46]}$	$e^{[1.2731\text{Ln}(\text{Hardness}) - 1.46]}$	$e^{[1.2731\text{Ln}(\text{Hardness}) - 1.46]}$
Chronic	$e^{[1.2731\text{Ln}(\text{Hardness}) - 4.705]}$	$e^{[1.2731\text{Ln}(\text{Hardness}) - 4.705]}$	$e^{[1.2731\text{Ln}(\text{Hardness}) - 4.705]}$

- (k) Class B(WW-1), B(WW-2), and B(WW-3) criteria listed in main table are based on a hardness of 100 mg/l (as CaCO_3 (mg/l)). Numerical criteria ($\mu\text{g/l}$) for nickel are a function of hardness (CaCO_3 (mg/l)) using the equation for each use according to the following table:

	B(WW-1)	B(WW-2)	B(WW-3)
Acute	$e^{[0.846\text{Ln}(\text{Hardness}) + 2.255]}$	$e^{[0.846\text{Ln}(\text{Hardness}) + 2.255]}$	$e^{[0.846\text{Ln}(\text{Hardness}) + 2.255]}$
Chronic	$e^{[0.846\text{Ln}(\text{Hardness}) + 0.0584]}$	$e^{[0.846\text{Ln}(\text{Hardness}) + 0.0584]}$	$e^{[0.846\text{Ln}(\text{Hardness}) + 0.0584]}$

- (l) Class B(WW-1), B(WW-2), and B(WW-3) criteria listed in main table are based on a hardness of 100 mg/l (as CaCO_3 (mg/l)). Numerical criteria ($\mu\text{g/l}$) for zinc are a function of hardness (CaCO_3 (mg/l)) using the equation for each use according to the following table:

	B(WW-1)	B(WW-2)	B(WW-3)
Acute	$e^{[0.8473\text{Ln}(\text{Hardness}) + 0.884]}$	$e^{[0.8473\text{Ln}(\text{Hardness}) + 0.884]}$	$e^{[0.8473\text{Ln}(\text{Hardness}) + 0.884]}$
Chronic	$e^{[0.8473\text{Ln}(\text{Hardness}) + 0.884]}$	$e^{[0.8473\text{Ln}(\text{Hardness}) + 0.884]}$	$e^{[0.8473\text{Ln}(\text{Hardness}) + 0.884]}$

[Filed 10/4/07, effective 11/28/07]

[Published 10/24/07]

EDITOR'S NOTE: For replacement pages for IAC, see IAC Supplement 10/24/07.

ARC 6349B**ENVIRONMENTAL PROTECTION
COMMISSION[567]****Adopted and Filed**

Pursuant to the authority of Iowa Code section 455B.474, the Environmental Protection Commission hereby amends Chapter 135, "Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks," Iowa Administrative Code.

Notice of Intended Action was published as **ARC 6072B** in the August 1, 2007, issue of the Iowa Administrative Bulletin.

The Iowa Legislature passed legislation (2007 Iowa Acts, Senate File 499) granting rule-making authority to the Environmental Protection Commission in response to provisions of the federal Energy Policy Act of 2005. The Iowa legislation requires the Commission to adopt rules consistent with Environmental Protection Agency guidance (see <http://www.epa.gov/OUST/index.htm>) requiring that all new underground storage tank and piping installations and replacements be constructed to provide secondary containment (i.e., double-walled tanks and piping) if they are within 1,000 feet of a community water system or a potable drinking water well. Under-dispenser containment systems must also be